Ulysses Observations Of Solar Wind Temperatures And Anisotropies in the Ecliptic From 1 To 5 Au and Out of the Ecliptic

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Measuremen ts are reported of the temperatures ant] anisotropies of solar wind protons and He^{++} ions. The Ulysses plasma observations include the in-ecliptic results for radial distances from 1 to 5 AU, and current out of the ecliptic measurements. Observed solar wine] events arc categorized (Trailing edge of high speed streams, Coronal Mass Ejections, etc.), and radial gradients of plasma parameters are presented for these different types of regions. For all solar wind proton data taken together, there is an in the ecliptic $r^{-0.44}$ power law dependence of proton temperature upon radial distance. The variation of density, velocity, temperature and anisotropy with distance from the sun and latitude, and physical implications thereof, arc discussed.

1. 1993 Fal l Meeting

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4. SH

5. (a) SH01 Ulysses Solar Wind Resul ts Beyond 1 AU
(b) 2164 SOI ar Wind Plasma

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8. **(hinge** $50 to:
Bruce R. Gol dstei n
Vi sa
Expires 09/96

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10. None

11. No